(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 24 December 2003 (24.12.2003)

PCT

(10) International Publication Number WO 03/107137 A2

(51) International Patent Classification7:

G06F

(21) International Application Number: PCT/US03/19179

(22) International Filing Date: 18 June 2003 (18.06.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/389,730

18 June 2002 (18.06.2002) US

(71) Applicant and

(72) Inventor: KONGTCHEU, Phil [US/US]; PFK Technologies, 105 Lock Street, Suite 215, Newark, NJ 07103 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,

SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations
- of inventorship (Rule 4.17(iv)) for US only

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS TO FACILITATE THE FORMATION AND TRADING OF DERIVATIVES CONTRACTS

Structure of Preferred embodiments of the invention

Decomposition Method

Use in Pricing/Decision
Bystams
Bystams
Bystams
Bystams
Bystams
Contract

1) Heiging with Oresta
2) Trees

Now residual days benefit
A) Indian perilibration and execution of executions of execution of execution of execution and execution and execution and executions assume that executions are executed and executions and executions assumed to FAS 1120

and IAS 28

Structure of preferred embodiments for the invention

(57) Abstract: This invention relates to methods, systems and computer programs to facilitate the formation trading and risk management of derivatives on one or more underlying. It innovates in the following areas: 1. The decomposition of any derivatives contract into fundamental building block structures called basis instruments in a multi-period, multi-securities market. 2. The incorporation of supply and demand price sensitivities in the pricing of derivatives contracts. 3. The incorporation of credit risk in the pricing of derivatives. 4. The development of methods, systems or computer program products for the accounting of derivatives contracts in compliance with FAS 133 or IAS 39. 5. The development of methods, systems or computer program products for the risk management of derivatives. 6. The development of methods, systems or computer program products for the risk management of derivatives. 7. The development of methods, systems or computer program products for the trading of derivatives whether in organized exchanges or in over-the-counter (OTC) markets.

